DIGITAL MICROSCOPE FOR INDUSTRIAL INSPECTION

- *VALUE*

- *VERSATILITY*

- *PERFORMANCE*

BSZ-500HD LCD

DESCRIPTION:

The **BSZ-500HD LCD** is a completely self-sufficient inspection system, designed to simplify and improve efficiency in your workflow. It starts with a high-quality, zoom optical system which moves effortlessly through the optimal magnification range for PCBs, machined parts, forensics, and dissection. The high-performance imaging system renders real-time, no-lag video on the 11.6" screen with extreme clarity. As you capture photos, the internal software provides an extensive set of measurement functions to analyze and take notes.

Zoom Optics:

The zoom objective lens provides 0.7X to 5X optical magnification to cover a wide range of subjects, and is ideally suited for dissection, soldering, and machining. The use of a single objective eliminates the inconsistent focus and distortion caused by lens-tilt seen with stereo microscopes. Each key magnification in the zoom range has a detent for improved repeatability, especially when performing measurements.

1080p Digital Imaging:

The built-in camera and 11.6" high-definition screen Bring images to life with clarity and precision. By making use of HDMI streaming, live images are rendered in real time without lag at a smooth 60fps. Use the included wireless mouse to navigate the on-screen controls, then capture and edit photos using a variety of measurement tools. Each magnification can use its own calibration setting to accurately draw and measure lines, arcs, ellipses, and more. Files can be saved to external USB devices such as drives and card writers.

Ergonomics and Illumination:

The microscope is pre-mounted to a tabletop stand, which features a large base for stability, and rack-and-pinion focus. Focus is controlled by symmetrical knobs with adjustable tension located on either side of the track-style column. A clip-on LED ring light can be easily detached or attached to the head as needed, and provides bright, even, low-heat illumination. Brightness and magnification controls are ergonomically grouped together to promote an efficient workflow.

FEATURES:

- An all-in-one digital inspection system for industrial and laboratory use, complete with high-definition imaging, a large 11.6" screen, and a 144-LED ring light.
- 0.7X-4.5X zoom magnification is ideal for dissection, soldering, and general inspection, and detents at key magnifications ensure ease and consistency.
- Real-time, high-definition images are displayed on the 11.6" screen with superb clarity and accurate colors.
- The large base provides stability as well as an ample work surface, while symmetrical focusing knobs provide a large travel range to suit various objects.
- A 144-LED ring-light can be quickly attached or detached as needed, and illuminates' subjects with low-heat, daylight-balanced light.

TECHNICAL SPECIFICATION:

Model No.	BSZ-500HD LCD
Lens	
Optical System	Finite-conjugate
Objective Magnification	0.7X-4.5X zoom with detent
Objective Numerical Aperture	0.024-0.087
Integrated Reduction	0.35X
Working Distance	100mm
Camera	
Sensor	Sony IMX307 (color)
Sensor Type	CMOS
Sensor Optical Format	1/2.8"
Active Pixels	2M (1920 x 1080)
Pixel Size	2.9µm x 2.9µm
Active Sensor Area	5.57mm x 3.13mm
Shutter	electronic rolling shutter
Monitor	
Display Size	11.6"
Monitor Magnification	46X
Displayed Magnification	11.3X-72.5X
Native Resolution	1920 x 1080
Aspect Ratio	16:9
Stand	
Stand Type	Table stand with track
Base Dimensions	320mm x 260mm x 20mm
Column Dimensions	Height: 299mm Depth: 54mm
Illuminator	
Illuminator Type	144-LED ring light
General	
Power Requirements	110-240VAC, 50-60HZ, auto-switching wide-band

CONTENTS:

- One microscope
- One monitor
- Three mounting screws
- One USB mouse
- One USB hub
- One 32GB USB flash drive
- One AC power adapter